LASER®

Part No. 6163

Rear Suspension Bush Tool

for Ford, Volvo

Instructions

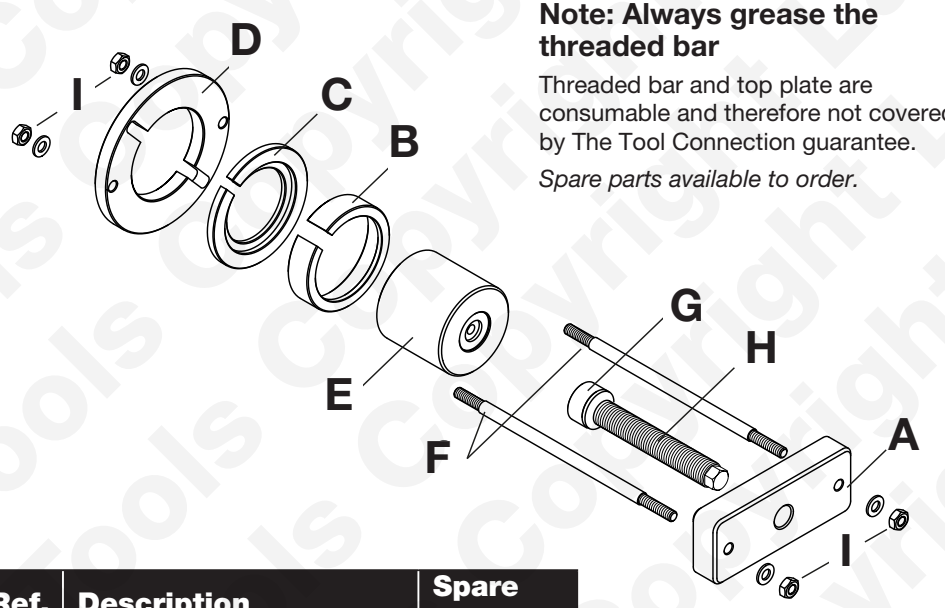
www.lasertools.co.uk

Introduction

Designed specifically to remove and fit the rear trailing arm front suspension bush with the arm on the vehicle so removing the necessity to disconnect the brake lines, brake cables, etc. It is not even necessary to remove the road wheels. This tool does not require mounting plates to be removed for either removal or fitting.

Using a specially developed force frame and coarse-pitch force screw, the bush tool provides an engineered solution that saves significant time and removes the need to use a workshop press.

Components



Note: Always grease the threaded bar

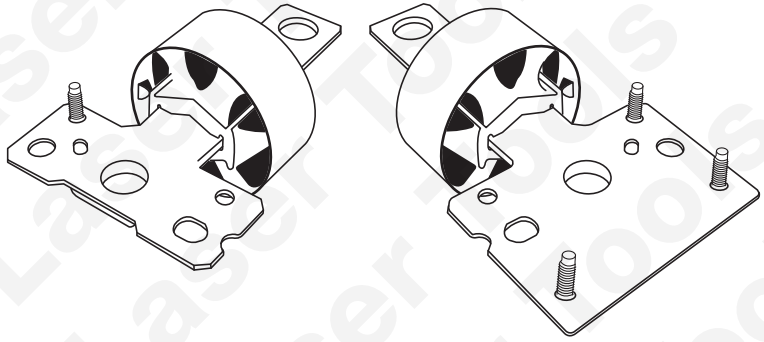
Threaded bar and top plate are consumable and therefore not covered by The Tool Connection guarantee.

Spare parts available to order.

Ref.	Description	Spare Part No.
A	Press Frame Top Plate	1681
B	Split Stepped Ring	
C	Split Washer Ring	
D	Press Frame Support ring	
E	Thrust Cup	
F	Press Frame Support Leg	
G	Thrust Bearing	1682
H	Force Screw Assembly (M24)	
I	Nuts (M10)	

Applications

Manfacturer	Model	Year
Ford	Galaxy	2006 - 2015
	Mondeo	2007 - 2015
	S-Max	2006 - 2015
Volvo	S60 II	2010 - 2018
	S80 II	2006 - 2016
	V60 I	2010 - 2018
	V70 III	2007 - 2016
	XC60	2008 - 2018
	XC70	2007 - 2016

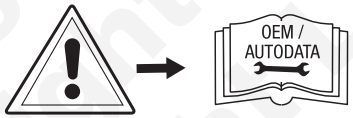


Rear lower trailing arm bushes on both sides of rear suspension (Ford and Volvo examples illustrated).

Instructions

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufacturers own data or Autodata.

The use of this tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.



Preparation:
With the vehicle on a wheel free ramp, support the relevant wheel with a suitable stand (transmission jack for example).

Refer to Fig 1:

- Remove lower shock absorber mounting bolt (**A**).
- Remove lower outer track control arm fixing as shown (**B**).
- Remove the trailing arm bush mounting as shown (**C**).
- Unclip the brake pipes/cables from the arm.
- Lower the arm just enough to be able to fit the bush tool.
- Fit the bush tool with the force screw hex (**8**) facing to the outside of the vehicle.

Note: Due to the shape of the bush it can only be removed and inserted in the directions indicated in Fig 2.

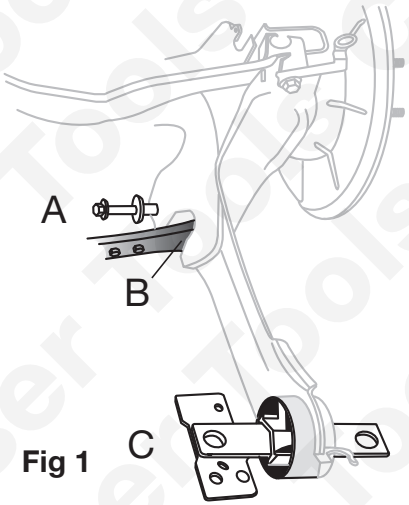


Fig 1

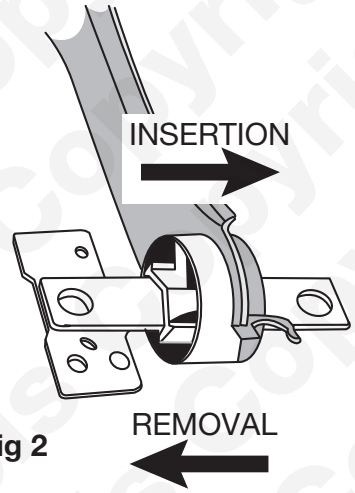


Fig 2

Instructions

Bush Extraction and Removal:
*Note: The new bush must be positioned correctly in **ALL** directions. For this reason it is a good idea to note and mark the orientation of the old bush.*

- Ensure the suspension arm is free from heavy corrosion or dirt. Remove any hard rust and dirt that will not allow the bush tool to fit squarely on the arm.
- Ensure the force screw and the thread in the top plate is clean and lubricated with molybdenum disulphide grease.

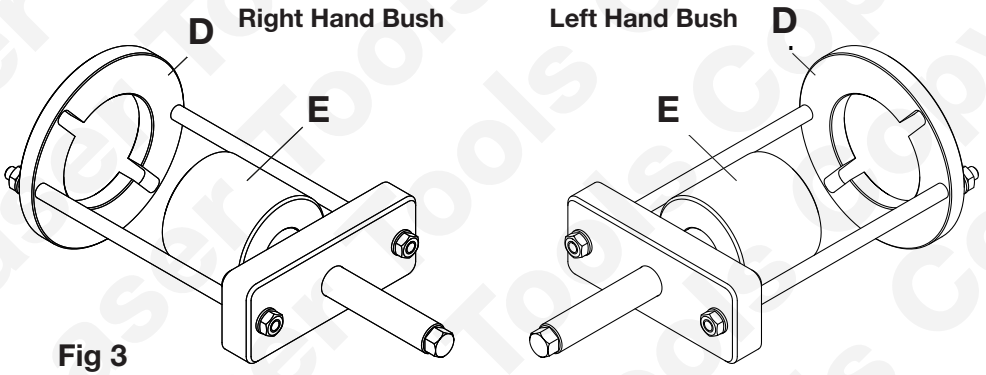


Fig 3

Note: assemble component 4 as shown according to the side of vehicle being worked on.

- Using the components shown in **Fig 3** mount the bush tool on the arm as shown and push out the old bush by turning the force screw in a clockwise direction as shown in **Fig 4**:

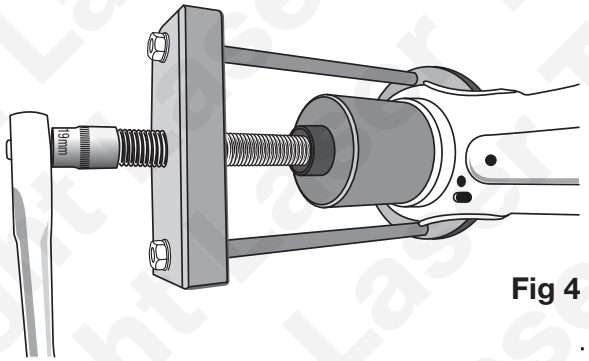


Fig 4

- **Do not use a power, impact or air gun on the bush tool.**
- Continue increasing the load until the bush is pushed out. Be ready to catch it.

Note: always wear safety goggles, safety hat and safety boots when working under a car.

Fitting the New Bush:

- Clean the suspension arm to accept the new bush, ensure the bush is correctly positioned and the correct bush is to be used.

Note: The bushes are handed left and right.

- The new bush must be positioned correctly in ALL directions; for this reason ensure the new bush is positioned in the same position that the old bush came out from. The use of the stepped split ring (**B**) ensures the new bush is inserted to the correct depth.
- To fit the new bush first assemble the tool components shown in **Fig 5** and ensure the force screw is clean and well lubricated.

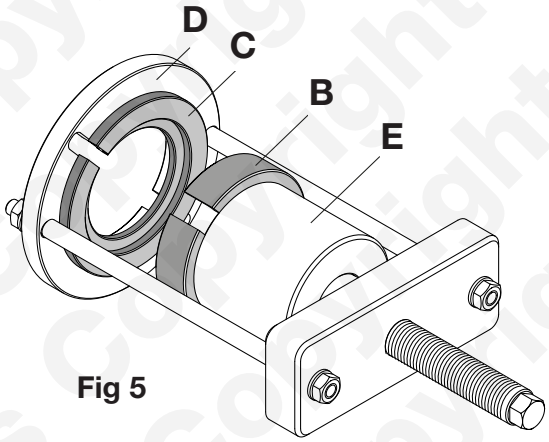


Fig 5

- Assemble the bush and bush tool components on the arm as shown in **Fig 6**. Remember the bush must be pushed in by the press frame support ring (**D**) and split washer ring (**C**) in the direction shown.

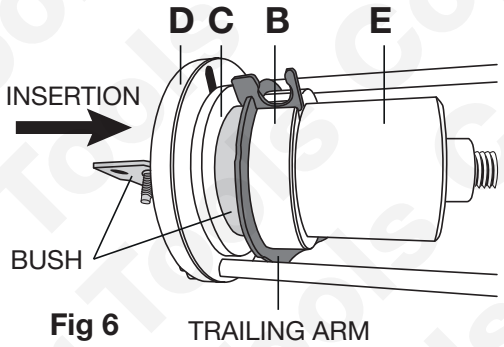


Fig 6

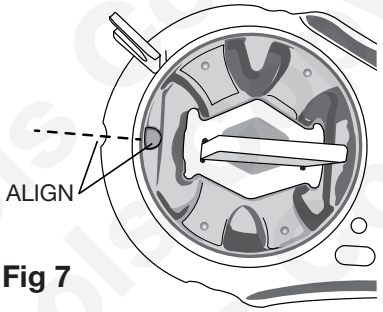


Fig 7

*Note: Align the bush as shown in **Fig 7**.*

*Note: For method of mounting and demounting the press frame when working on the Volvo left hand bush with double size mounting plate, see **Fig 8** and **Fig 9**. Hold the tool frame at an angle and use the slots built into the press frame support ring (**D**) to slide past the bush mounting plate.*

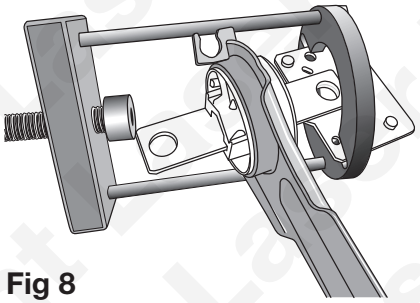


Fig 8

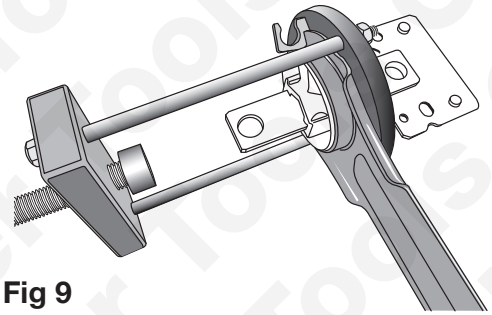


Fig 9

Maintenance:

After use, clean all components thoroughly, particularly ensuring that the force screw (**H**) threads are clean and free from swarf, rust particles and grit.

- Store the tool and components in a dry place.
- Do not use the bush tool if any parts are damaged or missing; this may cause failure and/or personal

Safety Warnings - please read

- If the engine has been identified as an Interference engine, damage to the engine will occur if the timing belt has been damaged. A compression check of all the cylinders should be taken before the cylinder head (s) are removed.
- Do not turn crankshaft or camshaft when the timing belt/chain has been removed.
- To make turning the engine easier, remove the spark plugs/glow plugs or injectors.
- Observe all tightening torques.
- Do not turn the engine using the camshaft or any other sprocket.
- Disconnect the battery earth lead (check Radio code is available).
- Do not use cleaning fluids on belts, sprockets or rollers.
- Some toothed timing belts are not interchangeable. Check the replacement belt has the correct tooth profile.
- Always mark the belt with the direction of running before removal.
- Do not lever or force the belt onto its sprockets.
- Do not use timing pins to lock the engine when slackening or tightening the crankshaft pulley bolts.
- ALWAYS REFER TO A REPUTABLE MANUFACTURERS WORKSHOP MANUAL.

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

Safety First. Be Protected.

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Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186.** Normal wear and tear are excluded as are consumable items and abuse.

TOOL CONNECTION
The Complete Connection

Distributed by The Tool Connection Ltd
Kineton Road, Southam, Warwickshire CV47 0DR
T +44 (0) 1926 815000 **F** +44 (0) 1926 815888
info@toolconnection.co.uk **www.toolconnection.co.uk**